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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/901,329	07/09/2001	Terry L. Cole	2000.053500	6034	
23720 75	7590 05/04/2005		EXAMINER		
WILLIAMS, MORGAN & AMERSON, P.C.			MOORTHY, A	MOORTHY, ARAVIND K	
HOUSTON, T	OND, SUITE 1100 X 77042		ART UNIT	PAPER NUMBER	
,		•	2131		

DATE MAILED: 05/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<u>'</u>						
	Application No.	Applicant(s)				
	09/901,329	COLE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Aravind K. Moorthy	2131				
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status	•					
1) Responsive to communication(s) filed on 14 Ja	nuary 2005.	. · ·				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-19 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on <u>09 July 2001</u> is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Ex	☑ accepted or b)☐ objected to be drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

Art Unit: 2131

DETAILED ACTION

- 1. This is in response to the amendment filed on 14 January 2005.
- 2. Claims 1-19 are pending in the application.
- 3. Claims 1-19 have been rejected.

Response to Amendment

4. The examiner approves the amendment made to claim 18. The applicant has corrected the misspelling in the claim.

Response to Arguments

5. Applicant's arguments with respect to claims 1-19 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1, 3, 4, 6-9, 11, 12, 14, 15 and 17-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Monroe et al U.S. Patent No. 6,697,421 B1.

As to claims 1, 9, 15 and 19, Monroe et al discloses a communications system, comprising:

> a physical layer hardware unit adapted to communicate data over a communications channel, the physical layer hardware unit being adapted to receive unencrypted control codes and encrypted user data over the

communications channel and transmit an upstream data signal over the communications channel based on the control codes [column 3, lines 12-31]; and

a processing unit adapted to execute a software driver for interfacing with the physical layer hardware unit, the software driver including program instructions for implementing a protocol layer to decrypt the user data and provide the upstream data to the physical layer hardware unit [column 4, lines 45-64].

As to claims 3, 11 and 17, Monroe et al discloses that the physical layer hardware unit includes:

an analog front end adapted to sample a received signal over the communications channel to generate received signal samples [column 5 line 47 to column 6 line 19];

a downconverter adapted to process the received signal samples to generate a carrierless waveform including the user data [column 5 line 47 to column 6 line 19]; and

a demodulator adapted to demodulate the received signal samples to generate the control codes [column 5 line 47 to column 6 line 19].

As to claims 4, 12 and 18, Monroe et al discloses that the physical layer hardware unit includes control logic adapted to receive the control codes and configure the downconverter based on the control codes [column 4, lines 45-64].

As to claims 6 and 14, Monroe et al discloses that the physical layer hardware unit includes:

Application/Control Number: 09/901,329 Page 4

Art Unit: 2131

an upconverter adapted to receive the upstream data and generate an upstream digital signal, wherein the analog front end unit is further adapted to receive the upstream digital signal and generate the upstream data signal [column 4, lines 45-64]; and

control logic adapted to receive the control codes and configure the upconverter based on the control codes [column 4, lines 45-64].

As to claim 7, Monroe et al discloses that the processing unit comprises a computer [column 1, lines 37-45].

As to claim 8, Monroe et al discloses that the computer includes:

a processor complex adapted to execute the program instructions in the software driver [column 1, lines 46-60];

a bus coupled to the processor complex [column 1, lines 46-60]; and an expansion card coupled to the bus, the expansion card including the physical layer hardware [column 1, lines 46-60].

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claims 2, 5, 10, 13 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Monroe et al U.S. Patent No. 6,697,421 B1 as applied to claims 1, 9 and 15 above, and further in view of Fleming, III et al U.S. Patent No. 6,549,568 B1.

As to claims 2, 5, 10, 13 and 16, Monroe et al does not teach that the control codes includes at least one of a power level assignment, a frequency assignment, and a tune slot assignment.

Fleming, III et al teaches control codes that include at least one of a power level assignment, a frequency assignment, and a tune slot assignment [column 11 line 60 to column 12 line 13].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Monroe et al so that the control code would have been power level assignment.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Monroe et al by the teaching of Fleming, III et al because adjusting power in the modem it helps overcome rain fades in wireless or satellite systems [column 2, lines 39-46].

Application/Control Number: 09/901,329

Art Unit: 2131

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Aravind K. Moorthy whose telephone number is 571-272-3793.

The examiner can normally be reached on Monday-Friday, 8:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ayaz R. Sheikh can be reached on 571-272-3795. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Aravind K Moorthy AM April 26, 2005

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TECHNOLOGY CENTER 2100

Page 6